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# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

April 6, 2010

Corey Thurston  
Western Clay Company  
620 East State Hwy 24  
Aurora, Utah 84620

Subject: Conditional Approval of Amended Notice of Intention to Commence Large Mining Operations, Western Clay Company, Bentonite Pits Quarry, M/041/0012, Sevier County, Utah

Dear Mr. Thurston:

The Division has completed a review of the amendment to the large mine notice, received March 31, 2010. Prior to issuing final approval, we require that you provide us with:

1. Two copies of the complete and corrected plan. When final approval is issued, one copy will be stamped "approved" and returned to you for your records.
2. Reclamation surety in the amount of \$428,000 (copy of cost estimate attached). Your current reclamation surety is \$256,000 is a letter of credit. Therefore, an additional surety of \$172,000 is needed. Please contact Penny Berry at (801) 538-5291 or [pennyberry@utah.gov](mailto:pennyberry@utah.gov) to obtain the appropriate reclamation surety forms.

Thank you for your cooperation and patience in completing this permitting process. If you have any questions regarding this letter, please contact me at (801) 538-5261 or John Rogers at (801) 538-5349.

Sincerely,

Paul Baker  
Minerals Program Manager

PBB:jcr:pb

Enclosure: bond calculation form

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RECLAMATION SURETY ESTIMATE - D8R  
 Western Clay  
 Bentonite Pits  
 M041/0012  
 Prepared by Utah State Division of Oil, Gas & Mining  
 Reclamation Details

last revision 4/1/2010  
 file: MINE-BOND-M0410012.xls  
 page "estimate D8"  
 Sevier

**Note: actual unit costs may vary according to site conditions** last unit cost update 04/01/10  
 -Amount of disturbed area which will receive reclamation treatments = 68 acres  
 -Estimated total disturbed area for this mine = 68 acres

Activity	Quantity	Units	\$/unit	\$
Safety gates, signs, etc (mtls & installation)	1	sum	600	600
Demolition of buildings & facilities	0	CF	0.35	0
Debris & equipment removal - trucking	0	trips	73.00	0
Debris & equipment removal - dump fees	0	ton	99.00	0
Debris & equipment removal - loading trucks w/FE loader	0	hour	248.00	0
Demolition & debris removal - general labor	0	hour	51.05	0
Regrading facilities areas - D8R (2ft depth)	0	acre	1288.01	0
Regrading - D8R dozer COST PER HOUR	0	hour	357.78	0
Regrading waste dump slopes - D8R dozer	0	CY	0.67	0
Ripping waste dump tops - D8R dozer	0	acre	597.62	0
Ripping stockpile & compacted areas - D8R dozer	14.5	acre	597.62	8665
Ripping pit floors - D8R dozer	0	acre	597.62	0
Ripping pit access roads - D8R dozer (2ft depth)	1.1	acre	1017.83	1120
Ripping - D8R dozer COST PER HOUR	4	hour	426.87	1707
Creating safety berms or barriers around highwalls -D8R	0	LF	0.21	0
Ripping access roads- D8R dozer	0	acre	597.62	0
Regrading access roads - D8R dozer	0	acre	644.00	0
Sidecast mtl replacement of steep slopes - trackhoe	0	LF	38.02	0
Sidecast mtl replacement- trackhoe COST PER HOUR	0	hour	380.17	0
Surface drainage restoration or construction	0	LF	0.24	0
Overburden for pit fill	338711	CY	0.85	287904
Topsoil replacement - D8R dozer	28500	CY	0.85	24270
Topsoil replacement - scraper	0	CY	1.15	0
Topsoil replacement - scraper COST PER HOUR	0	hour	440.78	0
Topsoil replacement - truck only, 2 mi round trip	0	CY	3.55	0
Topsoil replacement - loading trucks - FE loader	0	CY	0.69	0
Topsoil replacement - FE loader COST PER HOUR	0	hour	172.05	0
Mulching (2 ton/acre alfalfa/straw)	0	acre	400.00	0
Fertilizing (100 lb/acre diammonium phosphate)	0	acre	100.00	0
Composted manure (10 ton/acre)	33.6	acre	350.00	11760
Broadcast seeding	33.6	acre	280.00	9408
Drill Seeding	0	acre	280.00	0
Hydroseeding	0	acre	930.00	0
General site cleanup & trash removal	0	acre	100.00	0
Equipment mobilization	0	equip	3000	0
Reclamation supervision -10% of reclamation estimate		Subtotal		345435
10% Contingency		Subtotal		34543
Escalate for 5 years at 0.50% per year		Subtotal		379978
		Subtotal		37998
		Subtotal		417976
		Subtotal		10554
		Total		428530
Rounded surety amount in year 2015 \$				\$428,500
Average cost per disturbed acre =				6302